



TTL Sixth Anniversary Program

- TTL celebrated its 6th Anniversary program on November 23, 2017.
- Official release of 6th Anniversary Issue by Dr. Bhola Thapa, Registrar, KU & Mr. Kulman Ghising, Managing Director, Nepal Electricity Authority.
- Program accompanied by the project exhibition program Aviyantaa'17 of Mechanical Engineering Department and release of the 4th issue Aviyantaa.
- Photo Galleries and full news at <http://ku.edu.np/news/index.php?op=ViewArticle&articleId=2132&blogId=1>

Other highlights

- Official release of 4th Aviyantaa Issue by Dr. Ram Kantha Makaju Shrestha, Vice Chancellor, KU & Prof. Ole Gunnar Dahlhaug, NTNU, Norway

Lab Activities

- Cleaning and coating of TTL underground tank completed as per the agreement with Venus Construction & Water Proofing Pvt. Ltd.
- Technical evaluation of VFD and Electric Motor underway with consultation from experts from abroad.

Conference and Visits

- Dr. Hari Pd. Neopane, Member Secretary, TTL delivered his keynote speech in 7th Asia-Pacific Forum on Renewable Energy (AFORE 2017) organized from 15- 18 November 2017 at Busan, Republic of Korea.
- Mr. Sailesh Chitrakar, PhD candidate at TTL gave the oral presentation in AFORE 2017 at Busan, Republic of Korea.
- Mr. Nirmal Acharya, Research Associate at TTL completed Staff Mobility Program funded by Erasmus+ Merging Voices project from 20- 26th November at University of Algarve, Gambelas Campus, Portugal.

Energize Nepal Project

- CAD design of Model Francis Turbine Test Rig finalized and approved by NTNU officials.
- Data acquisition interface for model turbine test rig with MATLAB programming started.
- Working on torque, flow, head & rpm for calibration of measuring instruments.



Activities of PhD student

- Final fabrication works on 3 guide vane cascade rig.
- Successful test operation of PIV.
- Paper presentation in **AFORE 2017** held at Busan, S. Korea on 15-18 November.
- Progress meeting with both supervisors on 22nd & 23rd November at TTL.

Activities of ENEP PhD candidate

- 3D Modelling of turbine components.
- Study of CFD from validation perspectives.
- Study of **optimization techniques** used in Francis turbine components.

Activities of ENEP MS student

- Investigate **Bovet Approach** for primary Francis turbine.
- Study of **ANSYS Bladegen** for generating blade profiles.
- Co-ordination of 2nd & 3rd year hydropower group student projects.
- Lead the educational tour to Panauti HEP with final year mechanical students.

Lab Visits

- Visit by Prof. Ole Gunnar Dahlhaug and his team from NTNU on 22nd & 23rd November.
- Visit by **postdoc researchers** Bjorn and Chirag Trivedi from NTNU on 22nd November NTNU and held discussions on lab maintenance and operation.
- Visit by Mr. Ajay Singh from Khwopa Engineering College on 22nd November and held discussions on VFD and electrical parts at TTL.

New Recruitment in ENEP project at TTL

- Mr. Saroj Gautam was appointed as **Research Assistant** in the EnergizeNepal project from 7th November 2017.